COMMONWEALTH OF PENNSYLVANIA

Department of Environmental Protection

May 27, 2009 717-705-4876

SUBJECT:

Source Test Review

B. Braun Medical, Inc.

Donaldson Catalytic Ethylene Oxide Abatement System, Source ID S01

Hanover Twp., Lehigh County

Title V Operating Permit No. 39-00055

eFACTS # 1764579

TO:

Kenneth Wenner

Air Quality Program

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FROM:

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THROUGH: Gregory D. Parrish

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B. Braun Medical, Inc. operates an ethylene oxide medical equipment sterilization process at their Hanover Twp., Lehigh County facility. As a requirement of Title V Operating Permit No. 39-00055 the Donaldson Catalytic Ethylene Oxide Abatement System used to control emissions must be tested to determine the ethylene oxide removal efficiency.

B. Braun Medical, Inc. conducted testing on the abatement system on October 28-30, 2008. Samples were collected in Tedlar bags at the inlet and outlet of the abatement system, then analyzed by gas chromatograph. The test results are acceptable to the Department as a credible representation of the actual emissions under the operating conditions during testing and may be used for compliance determinations.

The following is a summary of data presented in the test report.

Donaldson Abatement System Ethylene Oxide Removal Efficiency

Run No.	1 10/28/08		2 10/29/08		3 10/30/08	
Test Date						
Sampling Location	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
Ethylene Oxide Concentration (ppmv)	47.2	8.2	58.8	8.2	38.2	6.6
Ethylene Oxide Removal Efficiency (%)	82.6		86.1		82.7	
Catalyst Bed Temperature (°F)	321		326		328	

Red Data File- B. Braun Medical, Inc., Hanover Twp., Lehigh County Virendra Trivedi, Division of Permits, Title V Operating Permit No. 39-00055 Dan Husted, Division of Permits, Title V Operating Permit No. 39-00055

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Reading File, Source Testing Section